DUTY STATEMENT

Classification: Research Scientist III (Epidemiology/Biostatistics			**Position Number**: 811-140-5594-xxx		
Branch/Section: Reproductive and Cancer Hazard Assessment Branch/Reproductive Toxicology and Epidemiology Section					
Location: Oakland/Sacramento			**Effective Date**:		
Management Designation	☐ Yes	☒ No	**Conflict of Interest**	☒ Yes	☐ No
Supervision Received:	☒ Yes	☐ No	**Supervision Exercised**:	☐ Yes	☒ No

Pursuant to Government Code Section 3100-3109, all public employees are declared to be disaster service workers for the protection of the health and safety and preservation of the lives and property of the people of the state from the effects of natural, man-made, or war-caused emergencies which result in conditions of disaster or extreme peril to life, property, and resources. This is of paramount state importance in protection of its citizens and resources.

POSITION SUMMARY

The Reproductive Toxicology and Epidemiology Section (RTES) within the Reproductive and Cancer Hazard Assessment Branch (RCHAB) provides technical support for the implementation of the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). The Section identifies chemicals for listing as causing reproductive toxicity under Proposition 65; conducts dose response and exposure assessments; develops reproductive/developmental risk methodology and guidance; and provides technical assistance to other programs in the Office of Environmental Health Hazard Assessment (OEHHA), the Attorney General's Office, and other California governmental entities.

Under general direction of the Senior Toxicologist, RTES, the Research Scientist III (Epidemiology/Biostatistics) (RS III [E/B]) serves as a technically authoritative consultant in reproductive epidemiology. The RS III (E/B) plans, organizes, and directs epidemiological research of a highly developed scientific scope and complexity to evaluate and prioritize chemicals for possible listing under Proposition 65, maintain the Proposition 65 list of reproductive toxicants, and conduct dose response assessment for listed reproductive toxicants. The incumbent also provides advanced and highly specialized scientific research expertise related to exposure assessment, exposure modeling, and data analysis. The RS III (E/B) works closely with toxicologists and other scientists in the course of performing the following duties and other related work:

ESSENTIAL FUNCTIONS

30% Plans and organizes epidemiological studies for hazard identification purposes. Directs and performs analysis of epidemiological data and evaluates epidemiological studies for use in hazard identification for reproductive and developmental toxicity. Reviews and interprets parameters of study design, methodology, and conduct, such as appropriate methods of analysis and interpretation of data, selection of the exposed and referent groups, reliable assessment of exposure, the completeness of follow-up, and the assessment and quantification of bias and confounding.

25% Develops hazard identification materials, including for release to the public and consideration by the State's Qualified Experts – the Developmental and Reproductive Toxicant Identification Committee (DARTIC). Provides scientific consultation on reproductive hazard identification issues associated with epidemiology data to other programs, as required. Interprets complex epidemiological hazard identification materials to make presentations at public meetings, including meetings of the DARTIC. Reviews public comments on issues related to hazard identification, prepares responses, and revises documents as appropriate.

(Attach additional sheet if necessary)

I have read and understood the duties and essential functions of the position and can perform these duties with or without reasonable accommodation: **Employee Signature:**	**Date**:
I certify that the above accurately represent the duties of the position: **Supervisor Signature:**	**Date**:
PERSONNEL USE ONLY: This personnel action has been reviewed and approved by:	
Personnel Analyst Signature:	**Date:**

15% Determines the suitability of epidemiologic data for dose-response assessment and the estimation of safe harbor levels in exposed humans, including consideration of complex issues of study design and analysis. Directs and performs dose response assessments using epidemiological data. Develops documentation of safe harbors for chemicals that cause reproductive or developmental toxicity. Responds to comments from the public and other interested parties, including the DARTIC, on epidemiological issues and human exposure issues in safe harbor development. Develops risk assessment methodology guidelines for dose response analysis of reproductive toxicants. Develops documentation of the rationale for model selection and the underlying assumptions that include characterization of the uncertainties associated with the development of the guidance values. Develops and evaluates advanced mathematical and statistical models which improve estimation of risk from exposure to reproductive toxicity. Organizes and holds public workshops to discuss epidemiological issues, as required.

10% Develops and applies advanced dose response modeling techniques. Plans and conducts scientific research to evaluate the benefits of advanced modeling methods for estimation of intake levels likely to be associated with no significant risk versus traditional methods. Evaluates the quality and relevance of data related to physiology, pharmacokinetics, and metabolism for use in inter-species, inter-dose, and inter-route extrapolations. Develops models based on such information, including physiologically-based pharmacokinetic models.

10% Provides scientific advice to support the Office of the Attorney General on exposure-related issues pertaining to chemicals listed as causing developmental or reproductive toxicity under Proposition 65. Identifies and evaluates issues related to developmental or reproductive toxicity having a bearing on Proposition 65 enforcement and/or litigation activity. Provides scientific advice and coordinates with local, state, and federal agencies, as appropriate, on issues related to developmental or reproductive toxicity. Conducts multi-route exposure analyses on consumer and worker exposure to reproductive toxicants to support safe use determinations.

MARGINAL FUNCTIONS

10% Conducts bill analyses and develops legislative change proposals and budget change proposals. Prepares articles for publication in scientific journals. Organizes and participates in technical workshops of interest to the Program. Presents at and participates in scientific meetings and conferences at the local and national level. Attends continuing education courses to maintain and further develop technical skills and expertise.

REQUIRED QUALIFICATIONS

- Proficient in principles of epidemiology, public health, and chemical and physical agents in the environment, with specific expertise in the area of human reproductive epidemiology.
- Proficient in designing, conducting, analyzing, and drawing conclusions from scientific research, disease surveillance, epidemiologic-based investigations, and exposure science for application to issues of public health, with expertise in research investigating incidence of human reproductive or developmental toxicity.
- Knowledge of distribution and determinants of disease, health, and genetic conditions in the population.
- Ability to provide leadership in evaluation, development, and application of reproductive epidemiology in public health.
- Knowledge of statistical software for analyzing epidemiological data.

DESIRED QUALIFICATIONS

- Knowledge of human toxicology and risk assessment.
- Able to function effectively in a team, work cooperatively with outside agencies and departmental staff, and communicate effectively.

(Attach additional sheet if necessary)

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Personnel Analyst Signature:	**Date:**

- Able to analyze scientific data and policy challenges accurately and take effective action.
- Able to produce high quality work products that clearly and concisely convey complex scientific findings and concepts.
- Able to evaluate and integrate mechanistic information into hazard identification of reproductive toxicants.
- Familiar with computer programming languages used in dose-response and exposure modeling.

WORKING CONDITIONS

Various time-critical assignments are part of the workload. Office is located in a high-rise building in downtown Sacramento or downtown Oakland. Work is performed in a cubicle arranged in an open area which may not have direct natural lighting. Telecommuting takes place from home office or other authorized off-site locations as needed. Prolonged sitting while reviewing scientific articles, reports and generating scientific documents and reports is required. Repetitive motion in using office equipment occurs. Off-site meetings and teleconferences sometimes take place. Willingness to travel as needed. May be required to travel to other OEHHA locations for business related needs as necessary.

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